



Reade Advanced Materials offers:

# Barium Titanate

- Synonyms:

Barium titanium oxide, Barium titanate; Barium titanate (IV)

- Formula:

BaTiO<sub>3</sub>

- Description:

Insoluble in water, alkalis. Strongly soluble in dilute acids. Soluble in concentrated acids

- Typical Chemical Properties Available:

>99.8% up to 99.98%

- Typical Physical Properties Available:

Sintered pieces, targets, 45 microns x down powder, and nano-sized particles

- Nominal Physical Constants:

Molecular Weight (g/mol.)	233.21
Density (g/cm <sup>3</sup> )	5.85
Melting Point (°C)	1620
Boiling Point (°C)	
Loss On Ignition	0.2 to 0.3
Thermal Conductivity (at 94% t. den.)	
Mohs Hardness @20°C	
Lattice Constant (A= )	
Specific Gravity	
Dielectric Constant	
Merck	12,1029

- Typical Applications:

Ferroelectric ceramics, single-crystals, storage devices, dielectric amplifiers

- Typical Packaging:

Drums

- TSCA (SARA Title III) Status:

Yes (Toxic)

- CAS Number:

12047-27-7

- UN Number:

1564

## Contact READE



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